

Identity

Poly methyl Methacrylate

AIB, 7, 5/12

Source

Indefinite

Age

Indefinite

Notes

C

Identity established by

Polymethyl methacrylate with the possibility of a few percent of cross linked esters in addition to polymethylmethacrylate. Identification was made on basis of (1) infra red spectrum (submitted with this report, (2) elemental analysis C 60.53% H 7.93% (3) density 1.19 @ 25°C. (4) softening point at 30° and (5) solubility in sulfuric acid and ethyl acetate.

Source This resin is produced in U.S. Work has been done on it in many foreign countries. [redacted] has raw materials from other process (by-products) which make it more economical to manufacture than in [redacted] where work has been done on the substance.

H-B/3

The casting resembles products made in [redacted]. Several subjective opinions were rendered to the effect that its composition and appearance might lead one to believe that this was its origin.

ve Numbers in cm

1100

1000

900

800

700

625



625

700

800

900

1000

1100

1200

1300

Length in Microns

TO
FROM

SUBJECT: PLASTIC CONTAINER

11/2/51

No. 2955-64

DATE 10V 20 '51

INDEX

SAMPLE

PLASTIC 71M

cut from chcl₃ sol.

purified for 2 hours

C = 60.53%

H = 7.93%

From [REDACTED]

Samp. Cell = mm. cms.

Comp. Cell = NONE cms.

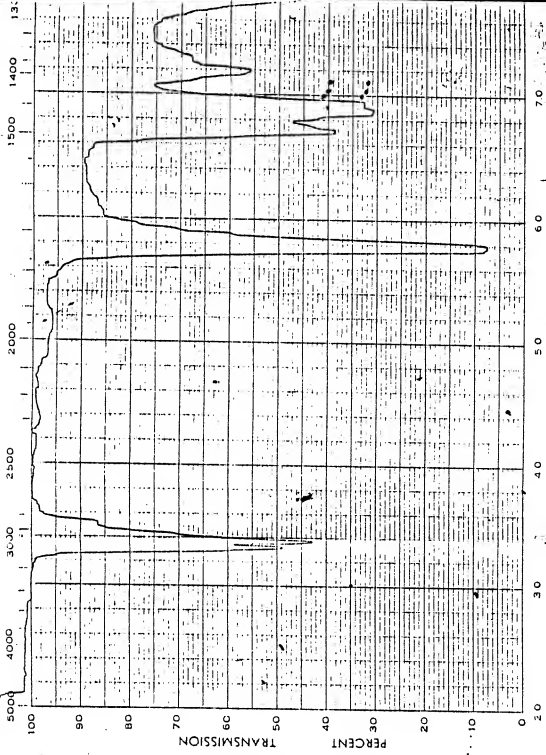
Cham. mg. mg.

Sol. NONE

Vol. c.c. % c.c.

FS. Solid C. Gas mm.

IR SPECTROPHOTOMETER
NaCl Prism



11/9/51

J

TO [REDACTED] FROM [REDACTED]
SUBJECT: PLASTIC CONTAINER